



Updated on March 2nd, 2021 | n° 29

Solar PV Energy Benefits to Brazil

Source: ABSOLAR, 2021.



Over **8.0 GW** in operation since 2012.



Over **R\$ 41.5 billion** in new investments.



Over **240 thousand new jobs** created in the country.



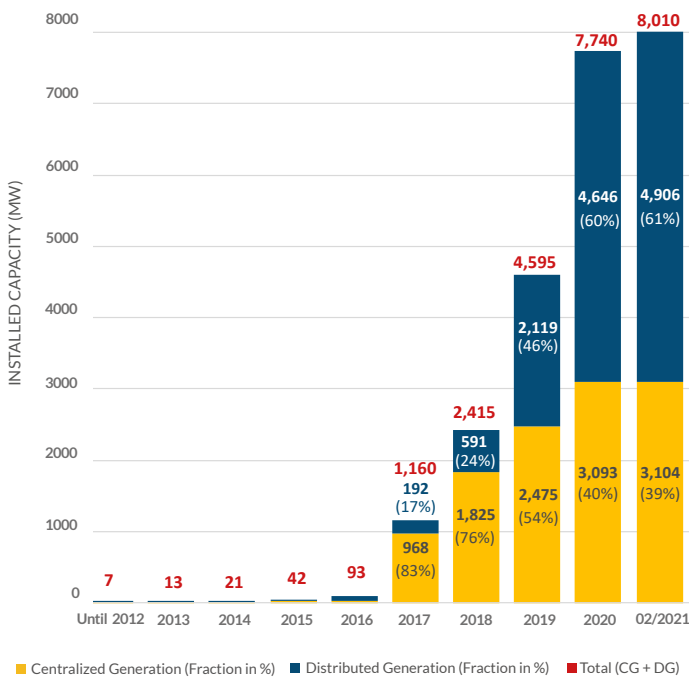
Over **R\$ 11.9 billion** in taxes collected.



Over **1.1 million tons** of CO₂ avoided.

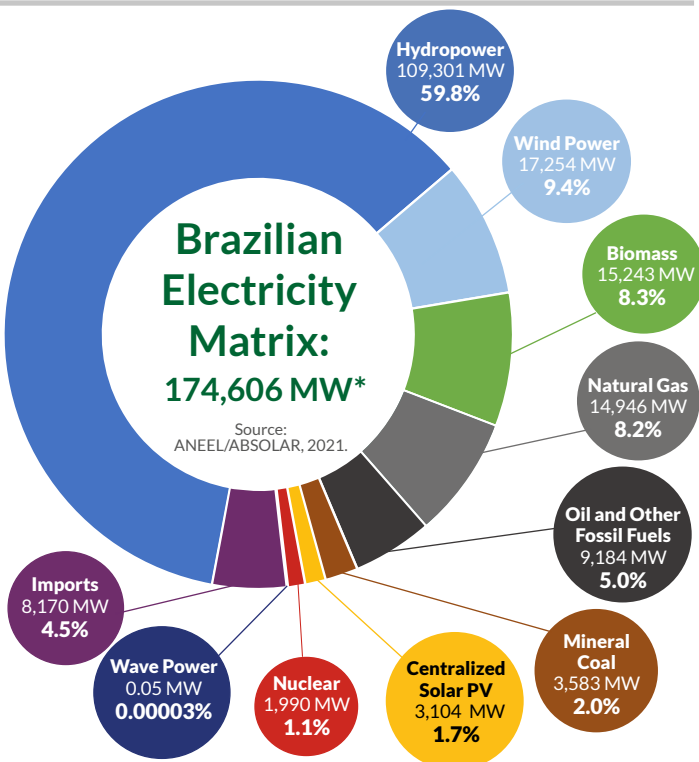
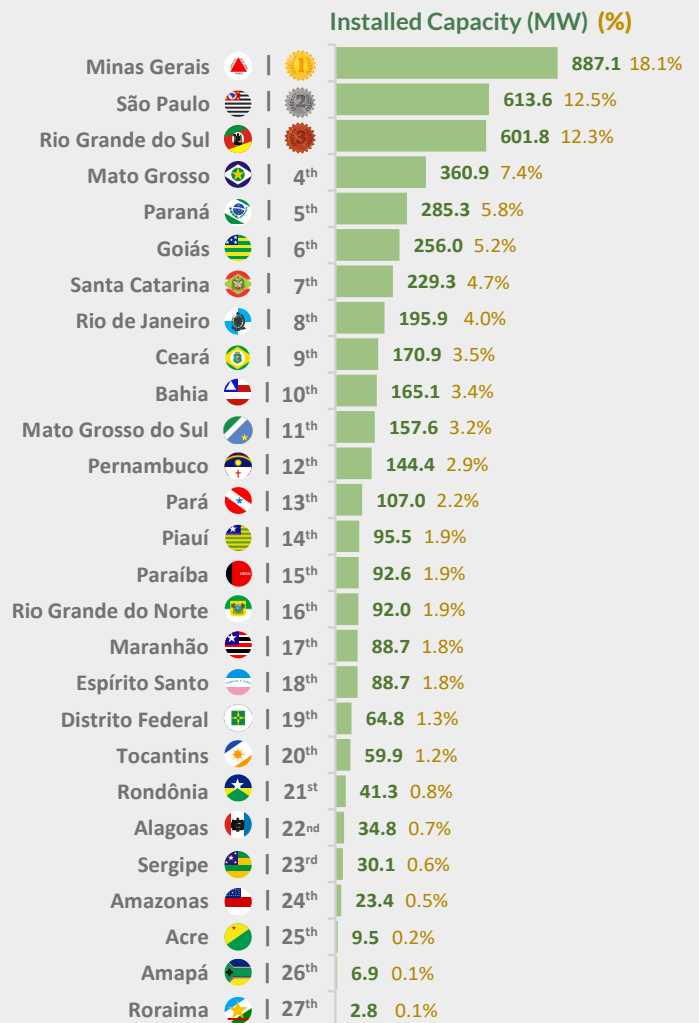
Evolution of the Solar Photovoltaic Energy in Brazil

Source: ANEEL/ABSOLAR, 2021.



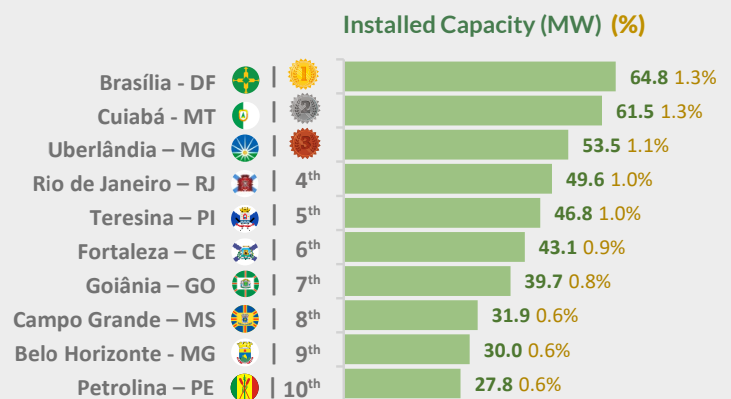
Distributed Generation State Ranking

Source: ANEEL/ABSOLAR, 2021.



Municipality Ranking

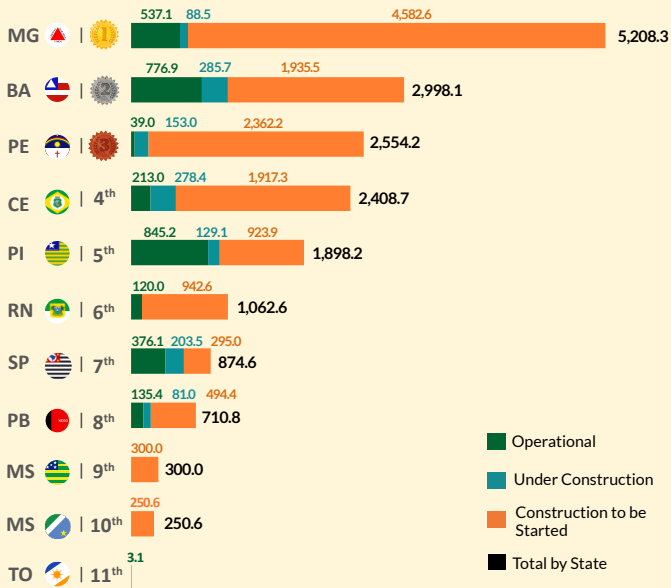
Source: ANEEL/ABSOLAR, 2021.



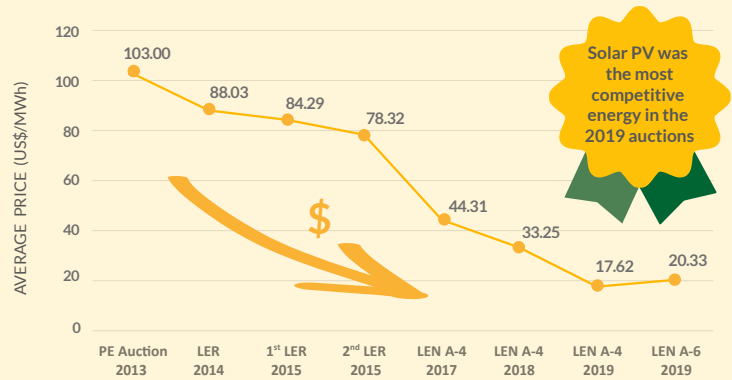
*The matrix total capacity does not include imports.

Centralized Generation Source: ANEEL/ABSOLAR, 2021.

Installed capacity (MW) and status of the authorized solar PV power plants of the regulated market and of the free market per state:



Price Development of Solar PV Energy in the Energy Auctions of the Regulated Electricity Market Source: CCEE/ABSOLAR, 2019.



Solar PV was the most competitive energy in the 2019 auctions

Electricity Generation Records Source: ONS/MME, 2021.

Solar PV achieved new records of electricity generation on the SIN (National Grid System) in Brazil:



DAILY AVERAGE

Oct. 3rd, 2020

778.0 MW
average
with a capacity
factor of
26.9%

DAILY MAXIMUM

Apr. 3rd, 2020

2,073.1 MW
at 10 a.m.
with instantaneous
capacity factor of
76.0%

1.4%

of the electricity
supplied in Brazil was
generated from
solar PV energy in
September 2020.

Distributed Generation Source: ANEEL/ABSOLAR, 2021.

Distributed microgeneration (up to 75 kW) and minigeneration (above 75 kW up to 5 MW) solar PV systems installed at homes, commercial buildings, industries, rural properties and public buildings.



97.2%

is the share of solar PV installed capacity in distributed microgeneration and minigeneration, leading the segment by far.



99.9%

of all distributed micro and minigeneration connections are from solar PV systems.



411,798

Solar PV systems connected to the grid.



515,008
consumer units

(0.6% from the total) receiving electricity credits through net-metering.

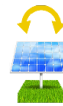
Value Chain Source: BNDES, 2021.

Number of national manufacturers from the solar PV sector registered at the BNDES FINAME financing program:



64

Solar PV System (kit)



10

Tracker



9

Solar PV Inverter



8

PV Module



1

String Box



1

Battery

Brazil needs a competitive and fair industrial policy for the solar PV sector, reducing the prices of components and equipments made in the country and creating more jobs, technology and innovation.

Data updated in accordance with the new BNDES re-accreditation procedure with the FINAME.

Distributed Generation Solar PV by Consumer Type in Brazil Source: ANEEL/ABSOLAR, 2021.

